AUTHOR INDEX TO THE BULLETIN

Vol. 12, 1933
July–December

The reference number in parentheses refers to the *monthly* issue of *The Bulletin;* the number following is the *page* number.

(Note: The indexes for 1933, January–June, were published under the same cover with the December, 1933, issue of the *Journal* and *Ceramic Abstracts*.)

Andrew, C. K. Time-study application in the ceramic industry, (7) 221–23.

Baggs, A. E. Progress report on research in tableware design, (7) 227–28.
Barringer, L. E. Ceramic education symposium, (11) 323.
Bleininger, A. V. Basic structure of ceramic industries, (7) 214–20.

Cermak, F. Time analysis and motion study, (7) 224–26.

Dahill, Edward. Manufacturing defects and mechanical damages in wet-process porcelain enamelware, (11) 317–18.

Flint, F. C., and Lyle, A. K. Test for chemical resistance of glass containers, (10) 296–99.

Greaves-Walker, A. F. Ceramic education symposium, (11) 322.

Helme, J. B. Recent developments in architectural ceramics, (9) 281–83.
Holmes, M. E. New York State College of Ceramics at Alfred University, (7) 235–36.
Hostetter, J. C. A century of progress in ceramics, (9) 265–75; Felicitations from the American Ceramic Society to the New York State College of Ceramics, (7) 236.
Hough, A. W. Time study as a basis for control of direct and indirect manufacturing costs on porcelain products, (10) 300–301.
Houghton, Amory. Ceramic education symposium, (11) 319–20.
Hull, M. L. Pleasing women by means of color, (11) 314–17.

Kriegel, W. W. De-airing of clay as applied to the stiff-mud process, (12) 338–40.

Lee, P. W. Manufacture of terra cotta wall block, (10) 301–303.
Lyle, A. K. See *Flint, F. C.*

Marshall, A. E. Sculptured glass, a new architectural medium, (9) 289–90.
Mayer, J. Wear of metal in muller tires in the clay industry, (11) 312–13.
Mehren, E. J. The contribution of engineering to progress—a review and evaluation, (10) 291–95.

Navias, Louis. Ceramic education symposium, (11) 321.
Norton, F. H. Effect of grain sizing on shrinkage and porosity of Georgia kaolin refractories, (12) 336–37.

Oliver, Arthur. Economic waste in education, (11) 318.

Scholes, S. R. Presentation of Albert Victor Bleininger for the honorary degree of Doctor of Science, (7) 237; Teaching of glass technology, (8) 243–47.
Seaver, Kenneth. Ceramic education symposium, (11) 320.
Shipley, R. A. Ceramic education symposium, (11) 321.
Silverman, Alexander. Ceramic education symposium, (11) 322.
Straight, H. R. Some results of time studies in the manufacture of structual clay products, (8) 248–52.

Taylor, N. W. Ceramic education symposium, (11) 322.
Timmerman, Walter. Polychrome terra cotta, (9) 276–80.

Watts, A. S. Ceramic education symposium, (11) 323.
White, H. E. Classification and definition of specialized refractories, (8) 252–56.

SUBJECT INDEX TO THE BULLETIN

Vol. 12, 1933
July–December

Activities names (persons entering into discussions of ceramic interest or contributing, through the Society, to the interests of the ceramic industry in some definite manner).
Bates, P. H., address at Baltimore-Washington Section meeting, (12) 344.
Booze, M. C., photo of, on Cincinnati meeting Comm., (10) 308.
Campbell, R. M., sketch and photo of, (11) 333.
Carothers, R. B., on history of the H. C. Spinks Clay Co., (11) 327; photo of, (10) 308.
Davis, B. C., scroll from American Ceramic Society presented by J. C. Hostetter, (8) 258.
Day, A. L., as lecturer for Edward Orton, Jr. Memorial lecture, (10) 309.
Eldridge, S. E., photo of, (10) 308.
Ferguson, R. F., with Technical Products Co. of Pittsburgh, (10) 310.
Fosseen, A. B., letter from, value of the Society, (11) 326.
Hostetter, J. C., honorary president of International Congress of Glass and Ceramics, (12) 341; honored by Society of Glass Technology, (12) 343.
Kuechler, Adolph, on clay research in Mont., (10) 310.
Linton, Robert, address at Calif. Section, (12) 343.
Meachem, F. L., photo of, (11) 332.
Pfeiffer, W. H., photo of, (11) 332.
Poste, E. P., honored by Rotarians, (12) 341.
Purdy, R. C., honored by A.A.A.S., (11) 328.
Roeser, W. F., address at Baltimore-Washington Section meeting, (12) 344.
Wheeler, H. A., letter from, on Charter Members of the Society, (11) 325.

Alfred University. See *Ceramic schools, New York State College of Ceramics.*
American Assn. of Engineers. See *Associations.*
American Ceramic Society, Committees of. See *Committees.*
Corporation members of, list of, (8) 260.
Divisions of. See *Divisions.*
Fellows of: A. L. Day for Edward Orton, Jr. Memorial Lecture, (10) 309; resolutions on deaths of F. W. Walker and W. H. Zimmer, (8) 259.
Local Sections of. See *Local Sections.*
meetings of, Annual, Cincinnati, (1934): a city of individuality, (10) 305; Committees named, (11) 331; Local Comm. and skeleton program, (10) 307; Netherland Plaza ready for meeting, (10) 307; notice to program contributors, (9) 286; program notice of Life Membership diplomas to Charter Members, letter from H. A. Wheeler, (11) 325.
Glass Division summer meeting announcement, (8) 263, (9) 287, (11) 332.
Joint meeting with Electrochemical Society, announcement of, (9) 285; program for, (11) 326.
Summer, 1933, in Chicago, (8) 263.
Membership Committee of. See *Committees.*
officers to be ballotted on for 1934, (12) 344.
publications of. See *Publications.*
thirty-five years since founding of, (7) 241.
American Standards Association. See *Associations.*
Annual Meeting of the Society. See *American Ceramic Society,* meetings of.
Architectural ceramics, recent developments in, (9) 281.
Architecture, color concepts in, (9) 282.
Architecture (*continued*)
glass for, new uses of, (9) 283; sculptured glass as new medium, (9) 289–91.
legal counsel tabooed by U. S. Treasury Dept., (11) 333.
Art Division. See *Divisions.*
Associations. See also *Societies, technical.*
American Assn. of Engineers, investigation of, on economic waste in education, (11) 318.
American Standards Assn., simplification and code activities of, (8) 264.
Ceramic Assn. of N. J., fall meeting announcement, (10) 310.
Grinding Wheel Mfrs., Sept. meeting of, (9) 288.
National Stoneware Manufacturers Assn., organization and officers of, (8) 264.
Ohio Ceramic Industries Assn., program for annual meeting of, (10) 310.
Autoclave test. See *Tests.*
Awards, Univ. of N. C., ceramic students win cup, (7) 237.

Baltimore-Washington Section. See *Local Sections.*
Bibliography on de-airing, (12) 340.
Bonnot Co. See *Manufacturers.*
Bulletin of the American Ceramic Society (*The Bulletin*). See *Publications.*
Bureau of Standards. See *Research laboratories.*
By-laws, of White Wares Division, proposed, (12) 342.

Cambridge-Wheatley Co., photo of, (10) 308.
Cements, history of, (9) 268.
Century of Progress (Chicago). See *Expositions.*
Ceramic art and architecture, and photos of murals in Cincinnati Terminal, (11) 330.
importance of, (7) 216.

Ceramic art (*continued*)
mosaic floor, 2nd Century, in Corinth, (11) 334.
and science, advancement in 1933 as shown in index review, (12) 335.
Ceramic Association of New Jersey. See *Associations.*
Ceramic education. See also *Education.*
ceramic engineering specialization, reasons for, (9) 275.
fundamentals in, (7) 218.
glass technology, history and definition of, (8) 243.
historical aspect, (9) 274.
human relation studies, (7) 219.
importance of, (11) 311.
note on, (12) 335.
number of ceramic schools, (7) 210.
relation of science to products, (7) 218.
vs. research, (7) 219.
symposium, Amory Houghton on, (11) 319; Kenneth Seaver, (11) 320; R. A. Shipley and Louis Navias, (11) 321; Alexander Silverman, N. W. Taylor, and A. F. Greaves-Walker, (11) 322; A. S. Watts and L. E. Barringer, (11) 323.
Ceramic industries, basic structure of, (7) 214.
comparative value of, (7) 215.
competition of, (7) 217.
geographic distribution of, (7) 216.
1600 to 1833; present-day, (9) 266.
time-study application in, (7) 221–23; time analysis and motion study for, (7) 224.
wear of muller tires in, (11) 312.
Ceramic products. See also specific ceramic products as *Enamelware, Glass, Refractories,* **etc.**
promotion of ware, (7) 217.
structural clay, time-study results in manufacture of, (8) 248.
weather proof, (7) 216.
Ceramic schools, Iowa State College: ceramic show at, (7) 238; G. E. Stong ceramic record, (7) 238.
New York State College of Ceramics: American Ceramic Society scroll presented to B. C. Davis, (8) 258; dedicatory address by A. V. Bleininger, (7) 214–20; dedication exercises of new ceramic building, remarks by M. E. Holmes, (7) 235; felicitation of American Ceramic Society, by J. C. Hostetter, (7) 236; presentation of doctor of science degree to A. V. Bleininger, by S. R. Scholes, (7) 237; R. M. Campbell as professor of ceramic engineering, (11) 333.
Ohio State University: professional degree of ceramic engineer granted to L. E. Barringer, G. H. Brown, C. M. Dodd, W. A. Hull, S. J. McDowell, E. T. Montgomery, G. D. Morris, (7) 239; Student Branch, photo of, (7) 240.
Rutgers University: sponsors student courses at 14th Exposition of Chemical Industries, (9) 288.
University of Ala.: ceramic study at, (11) 333.
University of North Carolina, State College of Agriculture and Engineering at Raleigh: ceramic students win *Raleigh Times* cup, (7) 237.
West Va. Univ.: practical pottery course at, (11) 334.
Ceramics. See also *Ceramic products.*
architectural, recent developments in, (9) 281.
as artistic product, (9) 273.
artware, history of, (9) 274.
definition of, (7) 214; and historical survey (9) 265.
etymology of term, *vs.* patent office, (7) 220.
fundamental science concepts of, (7) 217; studies in, history of, (9) 269.
as physics or chemistry, question on, (10) 295.
progress in, century of, (9) 265.
Ceramists, technology development and promotion of, (7) 217.
Chambers Brothers Co. See *Manufacturers.*
Chemical Industries, Fourteenth Exposition of, student courses at, sponsored by Rutgers Univ., (9) 288.
Chinaware, colors for, application of, (11) 314.
hotel, at Hotel Netherland Plaza, (8) 259, (11) 329.
Clark, F. R. See *Necrology.*
Clays, de-airing of, in stiff-mud process, (12) 338.
research on, in Mont., (10) 310.
Clayworking, history of, (9) 267.
Colors in architecture, concepts in, (9) 282.
for chinaware, use of, (11) 314.
Committees, American Ceramic Society: additional committee appointments, (7) 229; organization structure of, (9) 285; service committees listed; Management Committee added, (9) 285.
Advisory, White Wares Div., problems suggested by, to Bur. of Stand., (10) 304.
Membership: "Win with Wisdom," (7) 229, (8) 257, (8) 260, (9) 284, (10) 306, (12) 345; tangible returns to corporations from the Society, (11) 329.
Nominating "A", report of, (11) 333; Nominating "B," report of, (9) 288; officers to be ballotted on for 1934, (12) 344.
on Reboiling, Enamel Div., meeting of, (11) 333.
Corporation members of the Society, list of, (8) 260.

De-airing of clays in wet-mud process, (12) 338; bibliography on, (12) 340.
Design for chinaware, and colors, application of, (11) 314.
tableware, research in, (7) 227.
Divisions, Art: F. H. Rhead nominated for Trustee of, (12) 343.
Enamel: By-Laws amendment for, (7) 228; Reboiling Sub-Comm. of, meeting of, (11) 332.
Glass: summer meeting, (8) 263; summer meeting, and map of Cook Forest, (9) 287; summer meeting of, (11) 332; translations of foreign articles sponsored by, (9) 286.
Refractories: nominations for 1934–35, (10) 305.
White Wares: appeal for papers for 1934 Annual Meeting program, (8) 258; proposed by-laws for, (12) 342; Advisory Committee of, problems suggested by, to Bur. of Standards, (10) 304.

Economics, time analysis and motion study, (7) 224; time-study application in the ceramic industries, (7) 221; in structural clay products manufacture, results in, (8) 248; as cost control in porcelain manufacture, (10) 300.
Editorials, Basic structure of ceramic industries, by A. V. Bleininger, (7) 214–20.
The Bulletin (of the American Ceramic Society), (7) 213.
Century of progress in ceramics, (9) 265.
Ceramic education, (11) 311, (12) 335; Forty years of collegiate ceramic education and thirty-five years of the American Ceramic Society, (8) 241.
Ceramics as physics or chemistry, (10) 295.
Contribution of engineering to progress, review and evaluation of, (10) 291.
Index review of 1933, advancement in ceramic arts and science, (12) 335.
Love of knowledge requires human contact, (11) 335.
Major objectives in separating *The Bulletin* from the *Journal* and *Abstracts,* (8) 242.
Position of Patent Office that siliceous compositions fired to 1500°F are not ceramic, (7) 220.
Reasons for ceramic engineering specialization, (9) 275.
Education. See also *Ceramic education.*
economic waste in, (11) 318.
The Electrochemical Society. See *Societies, technical.*
Elkinton, W. T. See *Necrology.*
Enamel Division. See *Divisions.*
Enamelware, porcelain, wet-process, manufacturing defects and mechanical damages in, (11) 317.
Engineering, contribution of, to progress, review and evaluation of, (10) 291.
Expositions, Century of Progress (Chicago): American ceramic products at, (7) 239; American Ceramic Society summer meeting at, (8) 263; "Brick Week" at, (8) 264; Model glass plant of Owens-Illinois Co., (7) 240.
Chemical Industries, Fourteenth, student courses at, Rutgers Univ. sponsors, (9) 288.

Fellows, American Ceramic Society. See *American Ceramic Society, Fellows of.*
Frigidaire Corporation. See *Manufacturers*
Fuels and furnaces, history of, (9) 271–72.

Georgia kaolin refractories. See *Refractories.*
Glass for architectural use, new designs in, (9) 283.
classification of, based on shape and use, (10) 297.
in clay products, as bond, (9) 271.
Glass (*continued*)
containers of, chemical resistance test for, (10) 296.
history of, (9) 268.
research in, precision glass, bottle glass, glass annealing, (9) 271.
sculptured, as architectural medium, (9) 289.
Glass Division. See *Divisions.*
Glass technology, teaching of, history and definition of, (8) 243.
Grain size, effect of, on shrinkage and porosity of Ga. kaolin refractories, (12) 336.
Grinding Wheel Mfrs. Assn. See *Associations.*

International Congress of Ceramics. See *Societies, technical.*

Laboratories. See *Research laboratories.*
Letters, Fosseen, A. B., value of the Society, (11) 326.
Wheeler, H. A., on Charter Members of the Society, (11) 325.
Local Sections, Baltimore-Washington: Nov. meeting, address by P. H. Bates and W. F. Roeser, (12) 344.
California: Oct. meeting, officers of; resolutions to Public Works Administration, (12) 343.
Pittsburgh: joint meeting with School of Mineral Industries, Penn State Coll., program for, (9) 286; Sept. and Oct. meetings of, (9) 286; Joint Meeting with Pennsylvania Minerals Industries Conference, (11) 332.

Manufacturers, Bonnot Co., de-airing process at, (12) 340.
Chambers Co., Bonnot Co., Pacific Coast installations of de-airing process, (12) 339–40.
Frigidaire Corp., description, photos, (11) 331; plant photo, and F. L. Meachem and W. H. Pfeiffer, (11) 332.
Spinks Clay Co., history of, by R. B. Carothers, (11) 327.
Westinghouse Electric & Mfg. Co., time-study application at, (7) 221.
Maps, Cook Forest, for Glass Division summer meeting, (9) 287.
floor plan (4th) of Netherland-Plaza Hotel, (11) 329.
Meetings. See also *American Ceramic Society, meetings of.*
School of Mineral Industries, Penn State Coll., joint meeting with Pittsburgh Section, program for, (9) 286, (11) 332.
Members, new, April, May, and June, (7) 229; July, (8) 259; Aug., (9) 267; Sept. and Oct., (11) 327; Nov., (12) 344.
roster changes, April, May, June, (7) 231; July, (9) 288.
Membership Committee. See *Committees, American Ceramic Society.*
Metals, steel for muller tires, wear of, (11) 312.
Montana Bureau of Mines. See *Research laboratories.*
Mosaics, 2nd Century floor in Corinth, (11) 334.
Museums, Taft, story of, photo, (10) 309.

National Stoneware Manufacturers Association. See *Associations.*
Necrology, Clark, F. R., biog. and photo of, (12) 344.
Elkinton, W. T., biog. and photo of, (12) 344.
Wilcox, J. B., biog. and photo of, (7) 230.
New York State College of Ceramics. See *Ceramic schools.*
Nominating Committees. See *Committees.*
North Carolina State College. See *Ceramic schools, University of North Carolina.*

Ohio Ceramic Industries Association. See *Associations.*
Ohio State University. See *Ceramic schools.*

Pennsylvania Mineral Industries Conference, 3rd meeting of, (11) 332.
Phase-rule equilibrium diagrams for October *Journal,* (9) 288; notice, (11) 325; congratulations on, (12) 341.
Photographs, Booze, M. C., (10) 308.
Cambridge-Wheatley Co., (10) 308.
Carothers, R. B., (10) 308.
Cincinnati Union Terminal, outside view, (10) 307; terra cotta corridors and taxi ramp, (10) 310; outside view of, (11) 325; mosaic, (11) 327; terra cotta lined ramps, and Rookwood mosaics, (11) 328; murals at, (11) 330.
Clark, F. R., (12) 344.

Photographs (*continued*)
Eldridge, S. E., (10) 308.
Elkinton, W. T., (12) 344.
Frigidaire Corp., plant photos; F. L. Meachem and W. H. Pfeiffer, (11) 331–32.
Iowa State Coll., making frit wool; clay pipe, (7) 238.
Ohio State Univ. Student Branch, (7) 240.
Owens-Illinois model glass plant, (7) 240.
pottery at W. Va. Univ., (11) 334.
RCA building, front view; (9) 289; central panel (sculptured glass), (9) 290.
Rookwood Pottery, (10) 308.
Stong, G. E., (7) 239.
Taft House (Museum), front doorway, (10) 309; majolica dish at, (11) 327.
Wilcox, J. B., (7) 230.
Pittsburgh Section. See *Local sections.*
Polychrome terra cotta, use of, treatment of, methods and materials for, (9) 276–80.
Porcelain, costs control in, time study for, (10) 300.
Porcelain enamelware. See *Enamelware.*
Porosity of Ga. kaolin refractories, effect of grain size on, (12) 336.
Pottery, practical course in, at W. Va. Univ., (11) 334.
Processes, stiff-mud, de-airing of clays for, (12) 338.
vacuum, use of, (12) 338–40.
wet-process for, porcelain enamel, (11) 317.
Publications (American Ceramic Society), *The Bulletin:* new publications and format of, (7) 213; major objectives in separation of, from *Journal* and *Abstracts,* (8) 242; comments on new format, (8) 257; history of, statement made in 1921, (9) 285; endorsed by ceramic trade press, (9) 285.
Journal of, equilibrium diagrams for October issue, (9) 288; new formats for 1934, *Journal* and *Abstracts,* (12) 341.
1933 indexes for *Journal, Abstracts,* and *Bulletin,* (12) 335.

Reboiling of enamels, Comm. on, (11) 333
Refractories, Ga. kaolin, effect of grain sizing on shrinkage and porosity of, (12) 336.
specialized, classification and definition of, (8) 252.
Refractories Division. See *Divisions.*
Research on tableware design, progress report on, (7) 227.
Research (*continued*)
in terra cotta, studies suggested, (8) 257.
Research laboratories, Bureau of Standards: L. J. Briggs, director of, (8) 264; research problems for, suggested by Advisory Comm. of White Wares Div., (10) 304.
Montana Bureau of Mines, survey program of, (10) 310.
Rockefeller Center, sculptured glass at, use of, (9) 289.
Rolla School of Mines and Metallurgy. See *Ceramic schools, School of Mines and Metallurgy, Rolla, Mo.*
Rookwood Pottery, photo of, (10) 308.
Rutgers University. See *Ceramic schools.*

School of Mines and Metallurgy, Rolla, Mo. See *Ceramic schools.*
Schools, ceramic. See *Ceramic schools.*
Sections, local, American Ceramic Society. See *Local Sections.*
Shrinkage of Ga. kaolin refractories, effect of grain size on, (12) 336.
Silicate science, and high-temperature measurement, (9) 269.
Silicate systems, history of, (9) 270.
Siliceous products as ceramic products, (7) 220.
Silicosis, bibliography of references on, (7) 233–35.
Societies, technical. See also *Associations.*
Electrochemical Society, joint meeting with American Ceramic Society, (9) 295.
Internationa Congress of Ceramics: J. C. Hostetter at, (9) 288; J. C. Hostetter honorary president of, (12) 341.
and scientific, corporation support of, reasons for, (9) 284.
Society of Glass Technology, J. C. Hostetter honored by, (12) 343.
Society of Glass Technology. See *Societies, technical.*
Spinks, H. C., Clay Company. See *Manufacturers.*
Standards, American Association of, simplification and code activities of, (8) 264.
Steel casting, chrome-molybdenum, test reports in, (11) 312
Stiff-mud process. See *Processes.*
Structural clay products, "Brick Week" at Century of Progress, (8) 264.

Tableware, design in, progress report on research on, (7) 227.
Taft Museum. See *Museums.*
Technical societies. See *Societies, technical;* also *Associations.*
Terra cotta, polychrome, use of, treatment of, and materials for, (9) 276–80.
research in, Hewitt Wilson appeals for outline of research, (8) 257.
wall block, manufacture of, (10) 301; defects in, types of, and remedies for, (10) 301.
Tests, autoclave, for glass containers, (10) 298.
glass containers, chemical resistance of, (10) 296.
Time study (analysis) and motion study, (7) 224–26; application in the ceramic industries, (7) 221.
for cost control in porcelain manufacture, (10) 300.
in structural clay products, results of, (8) 248.
Translations, foreign articles, sponsored by Glass Div., (9) 286.

U. S. Bureau of Standards. See *Research laboratories.*
University of Alabama. See *Ceramic schools.*
University of North Carolina, State College of Agriculture and Engineering at Raleigh. See *Ceramic schools.*

Vacuum process. See *De-airing; Processes.*

Walker, F. W., Sr., resolutions of Fellows of the Society on death of, (8) 259.
Washington-Baltimore Section. See *Local sections, Baltimore-Washington.*
Westinghouse Electric & Mfg. Co. See *Manufacturers.*
West Virginia University. See *Ceramic schools.*
Wet-process porcelain enamelware. See *Enamelware.*
White Wares Division. See *Divisions.*
Wilcox, J. B. See *Necrology.*

Zimmer, W. H., resolutions on death of, by Fellows of the Society, (8) 259.